MCF 3M

Chapter 4 Test Review

Test Wednesday

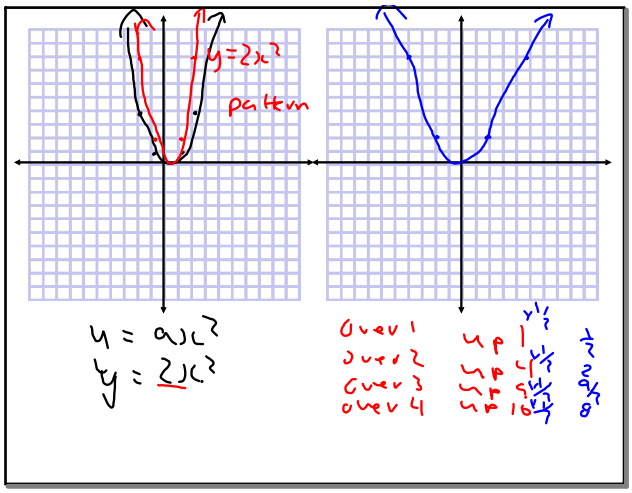
Expansion
Factoring
Identifying the 2 Zeros/Roots
Finding Vertex Form - Completing the Square
Finding Standard Form
Quadratic Formula

WORD PROBLEMS

p 226 1,2,3,4 & 5

p254-255 q 1-10

Mar 10-8:12 AM



Mar 11-10:12 AM

Complete The Square

$f(x) = -4x^2 - 8x + 12$

$f(x) = -4(x^2 + 2x) + 12$ partial factor

$f(x) = -4(x^2 + 2x + 1 - 1) + 12$ $\left(\frac{b}{2}\right)^2$

$f(x) = -4[(x+1)^2 - 1] + 12$

$f(x) = -4(x+1)^2 + 4 + 12$

$f(x) = -4(x+1)^2 + 16$ [-1, 16]

Mar 11-9:43 AM

$f(x) = x^2 + 2x - 35$ factored zeros

$f(x) = x^2 + 7x - 5x - 35$

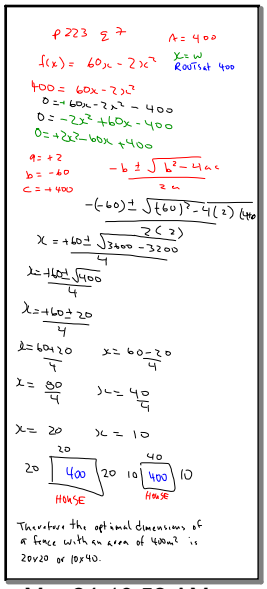
$f(x) = x(x+7) - 5(x+7)$

$= (x+7)(x-5)$

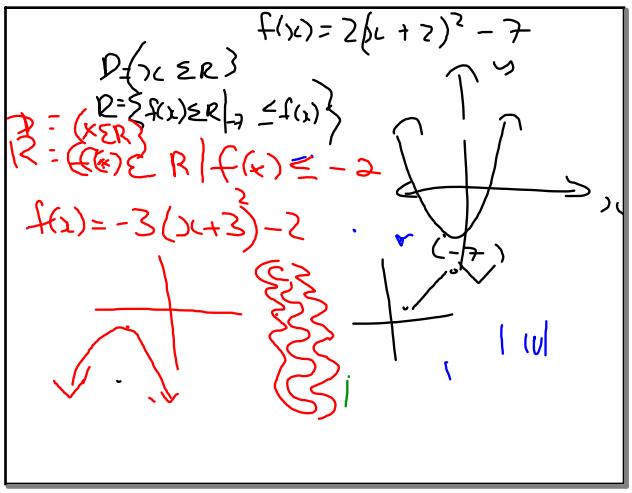
$s = -7$ $t = +5$

A	M
+2	-35
	x
	5 +7

Mar 11-10:07 AM



Mar 24-10:52 AM



Mar 24-10:57 AM

#7

Sally

t = s

$h(t)$ = m

$h(t) = -5t^2 + 10t$

$h(t) = -5(t^2 - 2t)$

$h(t) = -5(t^2 - 2t + 1 - 1)$

$h(t) = -5[(t-1)^2 - 1]$

$h(t) = -5(t-1)^2 + 5$

(1, 5)

Dangerous Ball

1m

The ball reaches a maximum height of 5m at 1 sec. Therefore it is a dangerous ball.

Nov 2-9:39 AM

p 120-121 q. 11, 12, 15,16& 18

p184 q. 1-10

Nov 2-8:39 AM